single interconnecting cable at multiple points along the interconnecting cable (Fig. 8, two lamps on either side of each cable), the locations of the luminaires being determined by the installer (Fig. 8). (An installer, be it a professional installer or otherwise, always makes some determination of where the lamps go before a lighting system goes up.) Nilssen does not disclose an insulation displacement connection.

Cook et al. discloses an insulation displacement connection (Fig. 2, middle right, portion of top wire by reference number 11).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the connection of Cook et al. in the apparatus of Nilssen to enable one to use the same set of wires to connect multiple luminaires so that they can be connected in parallel so that the string works even if one lamp burns out."

Applicants Response Re Claim 33

Applicant respectfully disagrees with at least four points made above by Examiner.

- 1. With respect to Nilssen '393, Examiner stated, "Nilssen discloses ... luminaires are connected to a single interconnecting cable at multiple points along the interconnecting cable (Fig. 8, two lamps on either side of each cable)", but Fig. 8 clearly shows three separate "connect cords" CCm, CC1, and CC2. Nilssen describes in detail how these connections are made at Col 9, lines 34-43 as follows, "Connection between special receptacle SR and male receptacle MRm is effectuated by connect cord CCm, which has a plug means at each end; connection between female receptacle FRm and male receptacle MRs1 is effectuated by connect cord CC1, which also has a plug means at each end; and connection between female receptacle FRs1 and male receptacle MRs2 is effectuated by connect cord CC2, which likewise has a plug means at each end. Each plug means is commensurate with the receptacle into which it is to be inserted." Thus Nilssen '393 uses multiple connect cords which is contrary to Claim 33's limitation of "a single interconnecting cable".
- 2. With respect to Cooke '839, Examiner stated, "Cook et al. discloses an insulation displacement connection (Fig. 2, middle right, portion of top wire by reference number 11)" Applicant believes that Fig. 2 shows a lead "inner end 11" wrapped around the conductor of lead 4 in an area that has had approximately ¼ inch of the insulation stripped away. This cannot be considered a connection made by an

- insulation-displacement connection. Cooke '839 states in Col 3, lines 18-21, "The inner end 11 of each spring 8 projects out through the wall of its cylinder 10 and is soldered or otherwise connected to one of the wire leads 4. For each light bulb, one of the springs 8 is connected to one of the wire leads and the other spring is connected to the other lead, as shown in FIG. 2. Thus the bulb is connected across the leads." There is no assertion that the connection is made by an insulation displacement connector.
- 3. As an additional point re Cooke '893, Cooke does not suggest that the connections between "inner end 11" and the conductor of "lead 4" are made at the time of the installation of his Strip Lighting System as is claimed in Claim 33.
- 4. Examiner also states," It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the connection of Cook et al. in the apparatus of Nilssen to enable one to use the same set of wires to connect multiple luminaires so that they can be connected in parallel so that the string works even if one lamp burns out." Contrary to Examiner's statement it not only would not have been obvious, it would have been impossible to "use the connection of Cook et al. in the apparatus of Nilssen to enable one to use the same set of wires to connect multiple luminaires so that they can be connected in parallel so that the string works even if one lamp burns out" due to the fact that the very nature of Nilssen' series resonant "special power supply SPS, whose schematic is shown in Fig. 5, requires that all the lamps be connected in series with one another and with the output of the SPS power supply. This is described in detail in Col. 9, Lines 4-67. Especially telling are the special "normally-shorted switch means integrally combined with a female receptacle means" (Col 9, Lines 62-63). Applicant believes there is no conceivable way the Nilssen series circuit could be combined with the Cooke parallel arrangement.
- 33. (Original) A high-frequency under-cabinet lighting system comprising: a high-frequency power source, an interconnecting cable, and multiple luminaires; the high-frequency power source being connected to and powered from a standard utility power line and having a high-frequency power output; the interconnecting cable being connected to said high-frequency power output; said interconnecting cable not being a track of a track lighting system;

the interconnecting cable being supplied from a manufacturing facility with no luminaires connected thereto;

the system further characterized in that the system is installed by an installer; during installation, luminaires are connected to a single interconnecting cable at multiple points along the interconnecting cable using an insulation-displacement connection; and

the locations of the luminaires being determined by the installer.

The novel physical features of Claim 33 produce new and unexpected results and hence are not obvious and are patentable over these references. Applicant respectfully request Examiner allow Claim 33.

Re Claim 38

The Office Action went on to say:

"Concerning claim 38, Nilssen discloses a high-frequency power source (abstract), an interconnecting cable (Fig. 8, cable on far left with alternate power source) and multiple luminaires (Fig. 8), the interconnecting cable being supplied with no luminaires connected thereto (Fig. 8, cable on far left with alternate power source). Nilssen does not disclose the system being characterized in that multiple luminaires are powered from the same interconnecting cable without cutting the cable.

Cook et al. discloses the multiple luminaires that can be powered from the same interconnecting cable without cutting the cable (Figs. 1 and 2, column 3 in lines 15-27).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the connection of Cook et al. in the apparatus of Nilssen to enable one to use the same set of wires to connect multiple luminaires so that they can be connected in parallel so that the string works even if one lamp burns out."

Applicants Response Re Claim 38

Applicant disagrees with Examiners rejection for substantially the same reasons listed above regarding original Claim 33:

1. Examiner stated, "Cook et al. discloses the multiple luminaires that can be powered from the same interconnecting cable without cutting the cable (Figs. 1 and 2, column 3 in lines 15-27).", but Cook '839 does not disclose the limitation that, "the

interconnecting cable being supplied with no luminaires connected there to". Clearly the Strip Lighting System in Cook is supplied with the "luminaires" attached to the "leads 4" with everything contained in a "flexible tube 1".

2. Examiner stated, "It would have been obvious to one of ordinary skill in the art at the time the invention was made to use the connection of Cook et al. in the apparatus of Nilssen to enable one to use the same set of wires to connect multiple luminaires so that they can be connected in parallel so that the string works even if one lamp burns out.", but as stated above contrary to Examiner's statement it not only wouldn't have been obvious, it would have been impossible to "use the connection of Cook et al. in the apparatus of Nilssen to enable one to use the same set of wires to connect multiple luminaires so that they can be connected in parallel so that the string works even if one lamp burns out" due to the fact that the very nature of Nilssen' series resonant "special power supply SPS, whose schematic is shown in Fig. 5, requires that all the lamps be connected in series with one another and with the output of the SPS power supply. This is described in detail in Col. 9, Lines 4-67. Especially telling are the special "normally-shorted switch means integrally combined with a female receptacle means" (Col 9, Lines 62-63). Applicant believes there is no conceivable way the Nilssen series circuit could be combined with the Cooke parallel arrangement.

Thus the combination of Cook and Nilssen would not have been obvious and if attempted could not have worked. In addition if they could have been combined, neither Nilssen nor Cook suggests a single "interconnecting cable supplied with no luminaires connected there to".

Applicant has changed the word "cutting" to "severing" in Claim 38 to more clearly define the claim since an insulation-displacement connector will cut into the insulation of the cable, but will not cut through the cable. The word sever more clearly makes this point.

38. (Currently amended) A high-frequency under-cabinet lighting system comprising: a high-frequency power source, an interconnecting cable, and multiple luminaires;

the interconnecting cable being supplied with no luminaires connected there to; and the system further characterized in that multiple luminaires can be powered from the same interconnecting cable without <u>eutting</u> the interconnecting cable.

The novel physical features of Claim 38 produce new and unexpected results and hence are not obvious and are patentable over these references. Applicant respectfully request Examiner allow Claim 38.

New Claims

Applicant has substituted the following 6 independent claims and 26 dependent claims drawn to a lighting system to replace the 6 independent and 26 dependent claims cancelled from the original application because they were drawn to an electrical connector.

- 45. (New) The luminaires described in claim 33, wherein the luminaires can be mounted in place prior to the insertion of the interconnecting cable.
- 46. (New) The luminaires described in claim 33, wherein the interconnecting cable is installed in place under the cabinet or shelf before the luminaires are mounted in place under the cabinet or shelf.
- 47. (New) The luminaires described in claim 33, wherein the luminaires can be relocated along the interconnecting cable.
- 48. (New) The luminaires described in claim 33, wherein the luminaires can be connected to the interconnecting cable in any one of four possible orientations.
- 49. (New) The luminaires described in claim 33, wherein the input terminals have a circular or oval cross-section.

- 50. (New) The luminaires described in claim 33, wherein the input terminals have a flat cross-section.
- 51. (New) The luminaires described in claim 33, wherein the luminaires include a ballasting circuit capable of powering at least one gas-discharge lamp.
- 52. (New) The luminaires described in claim 51, wherein the at least one gas-discharge lamp is a single-ended gas-discharge lamp.
- 53. (New) The luminaires described in claim 51, wherein the ballasting circuit includes an arrangement capable of changing the power level provided to the at least one gas-discharge lamp.
- 54. (New) The luminaires described in claim 38, wherein the luminaires can be mounted in place prior to the connection to the interconnecting cable.
- 55. (New) The luminaires described in claim 38, wherein the interconnecting cable is installed in place under the cabinet or shelf before the luminaires are mounted in place under the cabinet or shelf.
- 56. (New) The luminaires described in claim 38, wherein the luminaires can be relocated along the interconnecting cable.
- 57. (New) The luminaires described in claim 38, wherein the luminaires can be connected to the interconnecting cable in any one of four possible orientations.
- 58. (New) The luminaires described in claim 38, wherein the luminaires have input terminals; and the input terminals have a circular or oval cross-section.
- 59. (New) The luminaires described in claim 38, wherein the luminaire have input terminals; and the input terminals have a flat cross-section.

- 60. (New) The luminaires described in claim 38, wherein the luminaires include a ballasting circuit capable of powering at least one gas-discharge lamp.
- 61. (New) The luminaires described in claim 60, wherein the at least one gas-discharge lamp is a single-ended gas-discharge lamp.
- 62. (New) The luminaires described in claim 60, wherein the ballasting circuit includes an arrangement capable of changing the power level provided to the at least one gas-discharge lamp.
- 63. (New) A high-frequency under-cabinet lighting system comprising: a high-frequency power source, an interconnecting cable, and multiple luminaires;
- the high-frequency power source being connected to and powered from a standard utility power line and having a high-frequency power output;
- the interconnecting cable being connected to said high-frequency power output; said interconnecting cable not being a track of a track lighting system;
- the interconnecting cable being supplied from a manufacturing facility with no luminaires connected thereto;
- the system further characterized in that multiple luminaires can be powered from the same interconnecting cable without severing the interconnecting cable; and
- during installation, luminaires are connected to a single interconnecting cable at multiple points along the interconnecting cable using an insulation-displacement connection.
- 64. (New) The luminaires described in claim 63, wherein the luminaires can be mounted in place prior to the connection to the interconnecting cable.
- 65. (New) The luminaires described in claim 63, wherein the interconnecting cable is installed in place under the cabinet or shelf before the luminaires are mounted in place under the cabinet or shelf.

- 66. (New) The luminaires described in claim 63, wherein the luminaires can be relocated along the interconnecting cable.
- 67. (New) The luminaires described in claim 63, wherein the luminaires can be connected to the interconnecting cable in any one of four possible orientations.
- 68. (New) The luminaires described in claim 63, wherein the luminaires have input terminals; and the input terminals have a flat cross-section.
- 69. (New) The luminaires described in claim 63, wherein the luminaires include a ballasting circuit capable of powering at least one gas-discharge lamp.
- 70. (New) The luminaires described in claim 69, wherein the at least one gas-discharge lamp is a single-ended gas-discharge lamp.
- 71. (New) The luminaires described in claim 69, wherein the ballasting circuit includes an arrangement capable of changing the power level provided to the at least one gas-discharge lamp.
- 72. (New) A method of providing under-cabinet lighting, comprising the steps of: mounting the ballasted socket assemblies to the under side of the cabinet or shelf, passing a high-frequency output cord along the bottom of a cabinet or a shelf, placing the high-frequency output cord within a channel provided in the ballasted socket assembly,
- operating a mechanism that causes the ballasted socket assembly to make electrical contact with conductors within the high-frequency output cord.
- 73. (New) A method of providing under-cabinet lighting, comprising the steps of: attaching a reflector to a ballasted-socket assembly, mounting the ballasted socket assembly to the under side of the cabinet or shelf,

passing a high-frequency output cord along the bottom of a cabinet or a shelf, placing the high-frequency output cord within a channel provided in the ballasted socket assembly,

operating a mechanism that causes the ballasted socket assembly to make electrical contact with conductors within the high-frequency output cord.

74. (New) A method of providing under-cabinet lighting, comprising the steps of: positioning a reflector between a ballasted-socket assembly and the underside of a cabinet or shelf,

mounting the ballasted socket assemblies to the under side of the cabinet or shelf passing a high-frequency output cord along the bottom of a cabinet or a shelf, placing the high-frequency output cord within a channel provided in the ballasted socket assembly,

operating a mechanism that causes the ballasted socket assembly to make electrical contact with conductors within the high-frequency output cord.

75. (New) A method of providing under-cabinet lighting, comprising the steps of: orienting a ballasted-socket assembly in one of four possible orientations, mounting the ballasted socket assembly to the underside of the cabinet or shelf, passing a high-frequency output cord along the bottom of a cabinet or a shelf, placing the high-frequency output cord within a channel provided in the ballasted socket assembly,

operating a mechanism that causes the ballasted socket assembly to make electrical contact with conductors within the high-frequency output cord.

76. (New) A method of providing under-cabinet lighting using gas-discharge lamps, comprising the steps of:

mounting the ballasted socket assemblies to the under side of the cabinet or shelf, passing a high-frequency output cord along the bottom of a cabinet or a shelf, placing the high-frequency output cord within a channel provided in the ballasted socket assembly,

operating a mechanism that causes the ballasted socket assembly to make electrical contact with conductors within the high-frequency output cord.

Conclusion

For all of the above reasons, Applicant submits that the specification and claims are now in proper form, and that claims define patentably over the prior art. Therefore Applicant submits that this application is now in condition for allowance, which action he respectfully solicits.

Request For Conditional Constructive Assistance

Applicant has amended the claims of this application so that they are proper, definite, and define novel structure, which is also unobvious. If for any reason this application is not believed to be in full condition for allowance, Applicant respectfully requests the constructive assistance and suggestions of the Examiner pursuant to M.P.E.P. § 706.03(d) and § 707.07(j) in order that the undersigned can place this application in allowable condition as soon as possible and without the need for further proceedings.

Very respectfully,	
Dalit sie	
Dale Fiene	
	Applicant Pro Se

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Dale Fiene, Applicant

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